



Intermediate Webinar: Remote Sensing for Freshwater Habitats

Tuesdays, September 17 - October 1, 2019

10:00-11:00 EDT (UTC-4) or 18:00-19:00 EDT (UTC-4)

Freshwater habitats play an important role in ecological function and biodiversity. Remote sensing of these ecosystems is primarily tied to observations of the drivers of biodiversity and ecosystem health. Remote sensing can be used to understand things like land use and land cover change in a watershed, habitat connectivity along a water body, water body location and extent, and water quality parameters. This webinar series will guide participants through using NASA Earth observations for habitat monitoring, specifically for freshwater fish and other species. The training will also provide a conceptual overview, as well as the tools and techniques for applying landscape environmental variables to genetic and habitat diversity in species.

Part One: Review of Aquatic Remote Sensing & Freshwater Habitats

- Satellites & sensors for aquatic remote sensing
- Limitations of aquatic remote sensing
- Data needs and models
- Combining multiple data types
- Case study examples
- Question & answer session

Part Two: Overview of the Riverscape Analysis Project (RAP)

- Overview of RAP
- Data access and analysis with RAP
- Demonstration
- Question & answer session

Part Three: Overview of the Freshwater Health Index (FHI)

- Overview of freshwater ecosystem health metrics
- Overview of FHI
- Demonstration
- Question & answer session



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